

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-20 (canceled).

Claim 21 (new): A method for logging a radio module into a cellular radio network, comprising:

receiving a login message from the radio module in the radio network;
storing login data for the radio module in the radio network;
deleting login data from the radio network when the radio module logs out;

and

in response to an autoreset signal, an autoreset is automatically triggered in which the radio module is temporarily turned off and then on again or deactivates and registers again in the radio network.

Claim 22 (new): The method as claimed in claim 21, wherein the autoreset signal is produced when the radio module is logged out of the radio network.

Claim 23 (new): The method as claimed in claim 21, wherein the autoreset signal is produced in the radio module as soon as a first interval has elapsed.

Claim 24 (new): The method as claimed in claim 23, wherein a second time interval is set for the radio module between turning off and turning on again in the event of the autoreset.

Claim 25 (new): The method as claimed in claim 21, wherein the radio module turns on again immediately after turning off in the event of the autoreset.

Claim 26 (new): The method as claimed in claim 24, wherein the first or second time interval can be set by radio command.

Claim 27 (new): The method as claimed in claim 26, wherein maximum login time, after which the radio network logs out the radio module, or activity intervals are determined in which the radio module is supposed to be active, and these are adaptively used to determine the first or second time interval.

Claim 28 (new): The method as claimed in claim 23, wherein the first time interval is restarted when the radio module sends data to the radio network or receives data from the radio network.

Claim 29 (new): The method as claimed in claim 21, wherein data from volatile memory areas of the radio module is stored in nonvolatile form or outside the radio module before the autoreset for the radio module, and is written back to the volatile memory areas after it is turned on.

Claim 30 (new): The method as claimed in claim 21, wherein the radio network is one of a GSM network, a GPRS network, a UMTS network, an EDGE network and WLAN.

Claim 31 (new): A radio module for a cellular radio network, comprising:

- a transceiver for sending and receiving messages;
- a login device connected to the transceiver, wherein the login device produces a login message and transmits it via the transceiver when the radio module is turned on;
- an auto reset trigger device which produces or receives an autoreset signal; and

an autoreset unit connected to the autoreset trigger device for receiving the autoreset signal and disconnecting and subsequently reconnecting the radio module using the login device when said autoreset signal is received.

Claim 32 (new): The radio module as claimed in claim 31, wherein the autoreset trigger device transmits an autoreset signal when a logout message is received, and wherein the logout message comprises information that the login data for the radio module has been deleted from the radio network.

Claim 33 (new): The radio module as claimed in claim 31, wherein the radio module comprises a first timer for detecting when a first time interval has elapsed which is connected to the autoreset trigger device, which can output an autoreset signal when the first time interval has elapsed.

Claim 34 (new): The radio module as claimed in claim 31, wherein the radio module comprises a second timer that detects when a second time interval has elapsed which is connected to the autoreset unit, the latter being designed to turn the radio module on again only after a delay by the second time interval after it has been turned off in the event of the autoreset.

Claim 35 (new): The radio module as claimed in claim 34, wherein the first or the second timer comprises an input and a time interval memory and stores a time interval which has been input using the input unit to define the first or second time interval.

Claim 36 (new): The radio module as claimed in claim 35, wherein the input unit is connected to the transceiver and defines the first or second time interval by radio command.

Claim 37 (new): The radio module as claimed in claim 36, wherein the radio module further comprises:

an activity memory that holds activity times for the radio module;
a maximum login time memory that holds a maximum possible login time
for the radio module in the radio network; and
an evaluation unit;
wherein the evaluation unit accesses the activity memory and the maximum
login time memory and addresses the input unit to adaptively define the first and
second time intervals.

Claim 38 (new): The radio module as claimed in claim 33, further
comprising:

a time reset unit connected to the transceiver and to the first timer, wherein
the time reset unit resets the first timer whenever data in the radio module has been
sent to or received from the radio network.

Claim 39 (new): The radio module as claimed in claim 31, further
comprising:

a nonvolatile buffer store for buffering data during autoreset even when the
power supply for the rest of the radio module is interrupted.

Claim 40 (new): The radio module as claimed in claim 31, wherein the
radio module is one of a GSM module, a GRPS module, a UMTS module, an
EDGE module and a WLAN module.